

Amendments to the Abstract:

ABSTRACT

Please replace the abstract that appears on page 20 of the specification with the following revised abstract which is submitted on a separate sheet.

ABSTRACT

A reliable method for measuring a fill level $[(7)]$ of a fill substance $[(1)]$ in a container $[(3)]$ using a fill level measuring device $[(5)]$ working according to the travel-time principle, wherein, periodically, transmission signals $[(S)]$ are sent in the direction of the fill substance $[(1)]$, their echo signals $[(E)]$ are registered and converted into an echo function $[(A(t))]$, at least one echo characteristic of the echo function $[(A(t))]$ is determined and, on the basis of the echo characteristics of at least one preceding measurement, a prediction $[(P)]$ is derived for the echo characteristics to be expected in the case of the current measurement, the echo characteristics of the current measurement are determined taking into consideration the prediction $[(P)]$, and, on the basis of the echo characteristics, the current fill level $[(7)]$ is determined.